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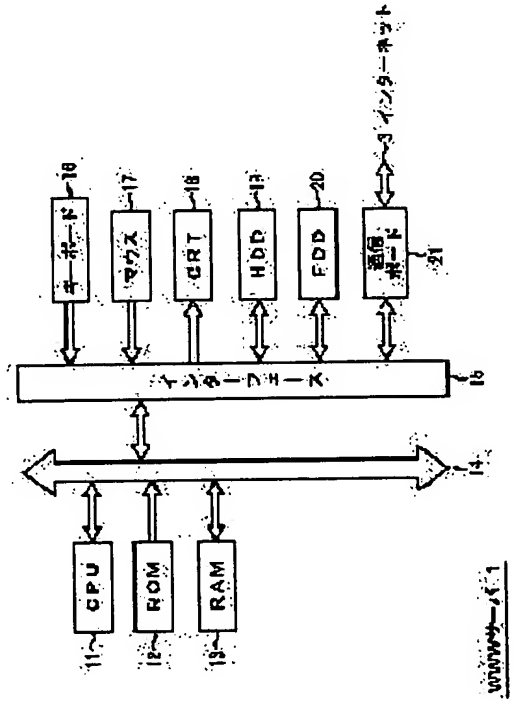
(54) INFORMATION PROVIDING PROCESSING DEVICE AND ITS METHOD AND STORAGE MEDIUM STORING INFORMATION PROVIDING PROCESSING PROGRAM

(57)Abstract:
PROBLEM TO BE SOLVED: To easily and quickly transmit an address indicating uniquely the address of information to other users.
SOLUTION: A hard disk drive 19 of a WWW(world wide web) server 1 records the relation between a keyword that is previously set and an address which designates uniquely a file that is corresponding to the keyword on a network. A CPU 11 of the server 1 converts the keyword included in the data on a text received from an information processor into the data having a tag to secure the association with the address corresponding to the keyword.



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* NOTICES *

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3.In the drawings, any words are not translated.

CLAIMS

[Claim(s)]
[Claim 1] In the information offer processor which supplies the 2nd file the link information to the 1st file of the arbitration on a network was described to be to the information processor of a requiring agency through said network while being described by the predetermined Page Description Language A record means to record the relation between the keyword set up beforehand and the address which specifies said 1st file on said network corresponding to said keyword as a meaning, The information offer processor characterized by including a conversion means to change into the data with a tag for relating with said address corresponding to said keyword said keyword contained in the data of said text received from said information processor.
[Claim 2] The information offer processor according to claim 1 characterized by including further a supply means to supply the HyperText MarkupLanguage file which is said 2nd file Uniform Resource Locator which specifies said 1st file on said network which is the Internet demanded according to HyperText Transfer Protocol as a meaning was described to be to said information processor of a requiring agency through said Internet.
[Claim 3] Said tag is an information offer processor according to claim 1 characterized by having the attribute of highlighting.
[Claim 4] In the information offer art which supplies the 2nd file the link information to the 1st file of the arbitration on a network was described to be to the information processor of a requiring agency through said network while being described by the predetermined Page Description Language The record processing step which records the relation between the keyword set up beforehand and the address which specifies said 1st file on said network corresponding to said keyword as a meaning, The information offer art characterized by including the transform-processing step which changes said keyword contained in the data of said text received from said information processor into the data with a tag for relating with said address corresponding to said keyword.
[Claim 5] While being described by the predetermined Page Description Language, said network is minded for the 2nd file the link information to the 1st file of the arbitration on a network was described to be. The keyword which is the information offer processing program supplied to the information processor of a requiring agency, and was set up beforehand, The record processing step which records relation with the address which specifies said 1st file on said network corresponding to said keyword as a meaning, Said keyword contained in the data of said text received from said information processor The information offer processing program storing medium by which the program which the computer characterized by including the transform-processing step changed into the data with a tag for relating with said address corresponding to said keyword can read is stored.

[Translation done.]

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DETAILED DESCRIPTION

[Detailed Description of the Invention]
[0001]
[Field of the Invention] This invention relates to the information offer processor which constitutes for example, a chat system or a notice plate system, an information offer art, and an information offer processing program storing medium.
[0002]
[Description of the Prior Art] The so-called chat system or notice plate system by which two or more users using the personal computer connected to the Internet transmit a text to a predetermined server, and perform handicap NYUKESHON by displaying the text inputted into the screen of each personal computer is used widely.
[0003] A user's personal computer displays the screen which looks at the text of an utterance of the user or other users, and the screen which transmits the text of an utterance of a user. The carbon button which directs the field and transmission as which the screen which transmits a user's remark inputs a text is arranged. A user inputs the text of an utterance into the field, and if the carbon button which directs transmission is clicked, a user's remark will be displayed on the screen which looks at the text of an utterance. Of course, the text of an utterance of the user is displayed on the screen which looks at the text of an utterance of other users.
[0004] In a chat system, a speaker name and the text of an utterance are displayed on the screen of the personal computer of a user and other users for every party. If the predetermined carbon button of a personal computer is operated or predetermined time amount passes, a speaker name and the text of an utterance will be read from a predetermined server.
[0005] In a notice plate, the list of titles of an utterance is displayed on the screen of a user's personal computer. The link to the page of the text of the utterance is stretched by the title. A user's click of the title of an utterance displays the text of an utterance on the screen of a user's personal computer.
[0006] When a user is going to tell other users predetermined URL (Uniform Resource Locator) with a chat system or a notice plate, a user has to indicate http://vaio.sony.co.jp/etc. and URL in the text of an utterance.
[0007]
[Problem(s) to be Solved by the Invention] However, when a user is going to tell other users predetermined URL when communicating through such a chat system or a network for example, if a user does not input the text in which all URL is shown like http://vaio.sony.co.jp/and he is ****, he is troublesome in ** and an emergency.
[0008] This invention is made in view of such a situation, and it aims at enabling it to transmit the predetermined address which directs the informational whereabouts to other users simply and quickly at a meaning.
[0009]
[Means for Solving the Problem] An information offer processor according to claim 1 is characterized by to include a conversion means change into the data with a tag for relating with the address corresponding to a keyword the keyword contained in the data of a record means to record the relation between the keyword set up beforehand and the address which specifies the 1st file on the network corresponding to a keyword as a meaning, and the text received from the information processor.
[0010] An information offer processor can establish further a supply means demanded according to HyperText Transfer Protocol to supply the HyperText Markup Language file which is the 2nd file UniformResource Locator which specifies the 1st file on the network which is the Internet as a meaning was described to be to the information processor of a requiring agency through the Internet.
[0011] A tag can have the attribute of highlighting.
[0012] An information offer art according to claim 4 is characterized by to include the transform-processing step which changes the keyword contained in the data of the record processing step which records the relation between the keyword

set up beforehand and the address which specifies the 1st file on the network corresponding to a keyword as a meaning, and the text received from the information processor into the data with a tag for relating with the address corresponding to a keyword.
[0013] The program of an information offer processing program storing medium according to claim 5 be characterize by to be include the transform processing step which change the keyword contain in the data of the record processing step which record the relation between the keyword set up beforehand and the address which specify the 1st file on the network corresponding to a keyword as a meaning , and the text received from the information processor into the data with a tag for relate with the address corresponding to a keyword .
[0014] In an information offer processor according to claim 1, an information offer art according to claim 4, and an information offer processing program storing medium according to claim 5 The relation between the keyword set up beforehand and the address which specifies the 1st file on the network corresponding to a keyword as a meaning is recorded. The keyword contained in the data of the text received from the information processor is changed into the data with a tag for relating with the address corresponding to a keyword.
[0015]
[Embodiment of the Invention] Drawing 1 is drawing explaining the gestalt of 1 operation of the chat system concerning this invention. The computer (a client computer 2-1 or a client computer 2-2 is called hereafter) of a client side transmits the text of an utterance which the user inputted to the WWW (World Wide Web) server 1.
[0016] The WWW server 1 transmits the data on which the text of an utterance of the user who received the text of an utterance of a user from the client computer 2-1 or the client computer 2-2, and received to the client computer 2-1 and the client computer 2-2 is displayed through the Internet 3.
[0017] A client computer 2-1 and a client computer 2-2 receive the data on which the text of an utterance of a user is displayed from the WWW server 1 through the Internet 3, and display the text of an utterance of a user on a screen.
[0018] Thus, the user of a client computer 2-1 and other users of a client computer 2-2 can see the text of a mutual utterance, and can communicate. Hereafter, when it is not necessary to distinguish a client computer 2-1 and a client computer 2-2 according to an individual, a client computer 2 is only called.
[0019] Drawing 2 is a block diagram explaining the configuration of the WWW server 1. CPU (central processing unit) 11 performs various application programs, such as CGI (Common Gateway Interface), and fundamental OS (operating system). Generally ROM (read-only memory)12 stores the data of immobilization fundamentally of the parameters the program which CPU11 uses, and for an operation. RAM (random-access memory)13 stores a variable parameter suitably in the program used in activation of CPU11, and its activation. These are mutually connected by the bus 14.
[0020] A keyboard 16 is operated by the user when inputting various kinds of commands into CPU11. A mouse 17 is operated by the user when performing the directions and selection of the point on the screen of CRT (cathode ray tube) 18. CRT18 displays various information in a text or an image. HDD (hard disk drive)19 and FDD (floppy disk drive)20 drive a hard disk or a floppy (trademark) disk, respectively, and record or reproduce the programs and information which are performed by CPU11 to them, such as CGI.
[0021] A communication board 21 is equipment for accessing the Internet 3, and specifically consists of Ethernet (trademark) (Ethernet) (trademark) boards etc.
[0022] These keyboards 16 thru/or communication boards 21 is connected to the interface 15, and the interface 15 is connected to CPU11 through the bus 14.
[0023] A client computer 2 has the same configuration as the WWW server 1, and omits the explanation.
[0024] Next, the display of the screen of a client computer 2 is explained. Drawing 3 is drawing showing the example of the window displayed on the screen of the client computer 2-1 when transmitting the text of an utterance.
[0025] The WWW browser started with the client computer 2-1 displays the predetermined window shown in the screen of a client computer 2-1 at drawing 3 . The window displayed on the screen of a client computer 2 by the WWW browser consists of the field which inputs the text of an utterance of a user, and a carbon button (the "utterance" and the identifier are attached all over drawing) which directs transmission.
[0026] a user -- the text of an utterance, for example, a text, -- the text which inputted into the field which inputs a text for "it is smart in VAIO", and was inputted into the field when the carbon button which directs transmission was clicked is transmitted to the WWW server 1. In addition, "VAIO" is these people's trademark.
[0027] Drawing 4 is drawing showing the example of the source of the HTML (HyperText Markup Language) file which displays the window shown in drawing 3 .
[0028] The WWW server 1 has memorized beforehand URL corresponding to a predetermined keyword and a keyword. The WWW server 1 judges whether it is ****** by which the keyword beforehand memorized to the WWW server 1 interior is contained in the text received from the client computer 2-1. The WWW server 1 is transposed to URL which

has memorized some texts which were in agreement with the keyword as contrasted with the keyword, and the tag which stretches a link at the time of ****** by which a keyword is contained in a text.
[0029] The WWW server 1 may set up the tag which stretches predetermined URL and a predetermined link so that a bold letter or italic may carry out highlighting to a client computer 2-1 and a client computer 2-2.
[0030] The WWW server 1 transmits the data containing the text in which the keyword contained in a text was transposed to the tag which stretches URL and a link to a client computer 2-1 and a client computer 2-2.
[0031] Drawing 5 is drawing showing the example of the window on which the text contained in the data received from the WWW server 1 is displayed displayed on the screen of a client computer 2-1 or a client computer 2-2. This window displayed on the screen of a client computer 2 by the WWW browser displays the text of the old remark of a user or other users.
[0032] A client computer 2-1 and a client computer 2-2 display the text (the text of "VAIO" is changed into the predetermined tag in the example of drawing 5) which was received from the WWW server 1 in the window which displays the text of an utterance of the user or other users and in which the predetermined text was replaced by URL.
[0033] Drawing 6 is drawing showing the example of the source of the HTML file (that is, it is data transmitted to a client computer 2-1 and a client computer 2-2 from the WWW server 1) which displays the window shown in drawing 5 . this -- an example -- setting -- a keyword -- it is -- "VAIO" -- predetermined -- URL -- linking -- a tag -- it is -- " -- < -- A -- -- HREF -- = -- " -- http -- : -- /-- /-- vaio . -- x -- x -- x -- x . -- co . -- jp -- /-- " -- > -- VAIO -- < -- /-- A -- > -- " -- replacing -- having -- **** .
[0034] As mentioned above, the user of a client computer 2-1 can transmit predetermined URL to the user of a client computer 2-2 simply and quickly, and the user of a client computer 2-2 can use the information on the file corresponding to predetermined URL immediately.
[0035] The window which transmits the text of an utterance shown in drawing 3 , and the window on which the text of an utterance is displayed from the WWW server 1 shown in drawing 5 may be displayed on the screen of a client computer 2-1 and a client computer 2-2 as one window, as shown in drawing 7 and drawing 8 .
[0036] Drawing 7 is drawing showing a window when the user of a client computer 2-1 inputs a predetermined text (for example, "it is smart in VAIO") into the field which inputs a text.
[0037] Drawing 8 is drawing showing the window displayed on the screen of a client computer 2-1 and a client computer 2-2 when the user of a client computer 2-1 transmits a predetermined text to the WWW server 1 and a client computer 2-1 and a client computer 2-2 receive predetermined data from the WWW server 1.
[0038] Drawing 9 is drawing showing the example of the source of the HTML file in the case of using as one window the window which transmits the text of an utterance shown in drawing 3 , and the window on which the text of an utterance is displayed from the WWW server 1 shown in drawing 5 . The source shown in drawing 9 has quoted the HTML file ("message.html" and an identifier are attached) which has the source shown in the HTML file ("input.html" and an identifier are attached) and drawing 6 which have the source shown in drawing 4 .
[0039] Next, with reference to the flow chart of drawing 10 , processing of the chat of a chat system is and is explained. In this drawing 10 , step S11 thru/or step S14 show processing of the client computer 2-1 by the side of an utterance, step S31 thru/or step S35 show processing of the WWW server 1, and step S51 and step S52 show processing of the client computer 2-2 of a receiving side.
[0040] In step S11, a user inputs the text which wants to speak to a client computer 2-1. In step S12, a client computer 2-1 transmits the text inputted at step S11 to the WWW server 1.
[0041] CPU11 of the WWW server 1 makes a communication board 21 receive the text of an utterance from a client computer 2 in step S31.
[0042] When judged with the keyword which CPU11 of the WWW server 1 judged whether the keyword beforehand memorized in the received text would be contained in step S32, and has been beforehand memorized in the received text being contained, it progresses to step S33, and a keyword is changed into the tag for stretching a link to predetermined URL, and it progresses to step S34.
[0043] In step S32, when judged with the keyword memorized beforehand not being contained in the received text, procedure skips step S33 and progresses to step S34.
[0044] In step S34, CPU11 of the WWW server 1 saves a text at the file of the chat currently recorded on the hard disk 19. CPU11 of the WWW server 1 makes a client computer 2-1 and 2-2 transmit the data of the file of a chat to a communication board 21 in step S35.
[0045] In step S13, a client computer 2-1 receives the data of the file of the chat transmitted from the WWW server 1. In step S14, a client computer 2-1 updates a display based on the received data.
[0046] In step S51, a client computer 2-2 receives the data of the file of the chat transmitted from the WWW server 1. In

step S52, based on the received data, a client computer 2-2 updates a display, and ends processing.
[0047] As mentioned above, the WWW server 1 is changed into the tag for stretching a link to predetermined URL which corresponds in some predetermined texts received from the client computer 2-1, and transmits to a client computer 2-1 and 2-2.
[0048] In addition, predetermined URL corresponding to the keyword beforehand memorized by the WWW server 1 and a keyword may be memorized by the user unit, and may be memorized per a predetermined user's group. Or predetermined URL corresponding to the keyword beforehand memorized by the WWW server 1 and a keyword may be memorized per a chat system or notice plate.
[0049] Moreover, the manager of the WWW server 1 may be made to memorize beforehand predetermined URL corresponding to the keyword beforehand memorized by the WWW server 1 and a keyword, and a user may be made to register it.
[0050] In addition, although explained having changed into the tag for stretching a link to URL to which the WWW server 1 corresponds a predetermined text, you may make it a client computer 2 change the text to transmit. You may make it similarly a client computer 2 change into the tag for stretching a link to URL which corresponds the predetermined text received from the WWW server 1.
[0051] Next, the medium used in order to install in a computer the program which performs a series of processings mentioned above and to make it into the condition which can be performed by computer with reference to drawing 11 is explained.
[0052] As shown in drawing 11 (A), a user can be provided with a program in the condition of having installed on the hard disk 102 (it corresponding to the hard disk built in the hard disk drive 19 of drawing 2) as a record medium built in the personal computer 101 beforehand.
[0053] Or as shown in drawing 11 (B), a program can be stored in record media, such as a floppy disk 111, CD-ROM112, MO disk 113, DVD114, a magnetic disk 115, and semiconductor memory 116, temporarily or permanently, and can be offered as a software package again.
[0054] Furthermore, it transmits to a personal computer 123, or a program is transmitted to a personal computer 123 by the cable or wireless through a Local Area Network and a network 131 (it corresponds to the Internet 3 of drawing 1) called the Internet, and the hard disk to build in can be made to download it in a personal computer 123 through a satellite 122 from the download site 121 by wireless, as shown in drawing 11 (C).
[0055] The medium in this specification means the concept of the wide sense containing all these media.
[0056] Moreover, in this specification, the step which describes the program offered by the medium is not only the processing containing an element with time but a juxtaposition thing also including the processing performed according to an individual.
[0057] In addition, in this specification, a system expresses the whole equipment constituted by two or more equipments.
[0058]
[Effect of the Invention] According to an information offer processor according to claim 1, an information offer art according to claim 4, and the information offer processing program storing medium according to claim 5 The relation between the keyword set up beforehand and the address which specifies the 1st file on the network corresponding to a keyword as a meaning is recorded. Since the keyword contained in the data of the text received from the information processor was changed into the data with a tag for relating with the address corresponding to a keyword The predetermined address which directs the informational whereabouts at a meaning can be transmitted now to other users simply and quickly.

[Translation done.]

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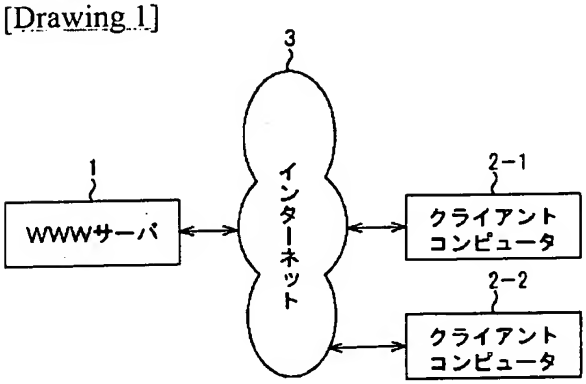
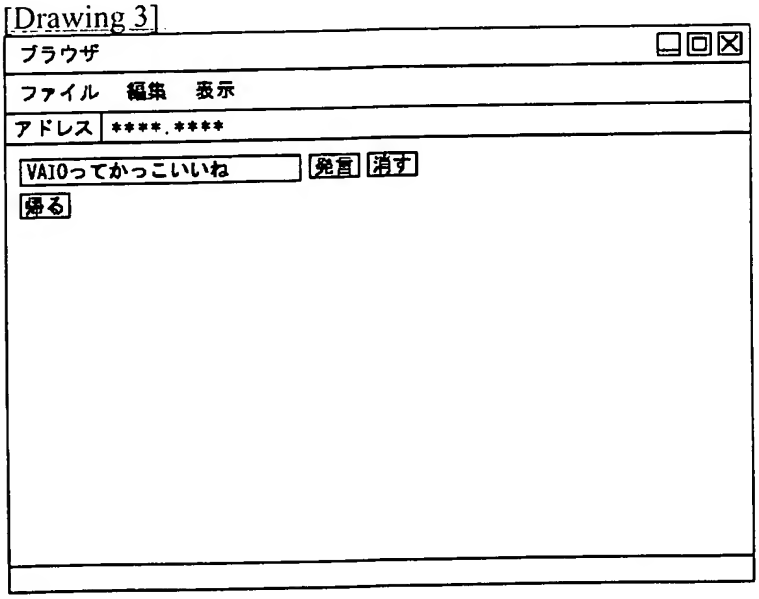
DRAWINGS

[Drawing 1]



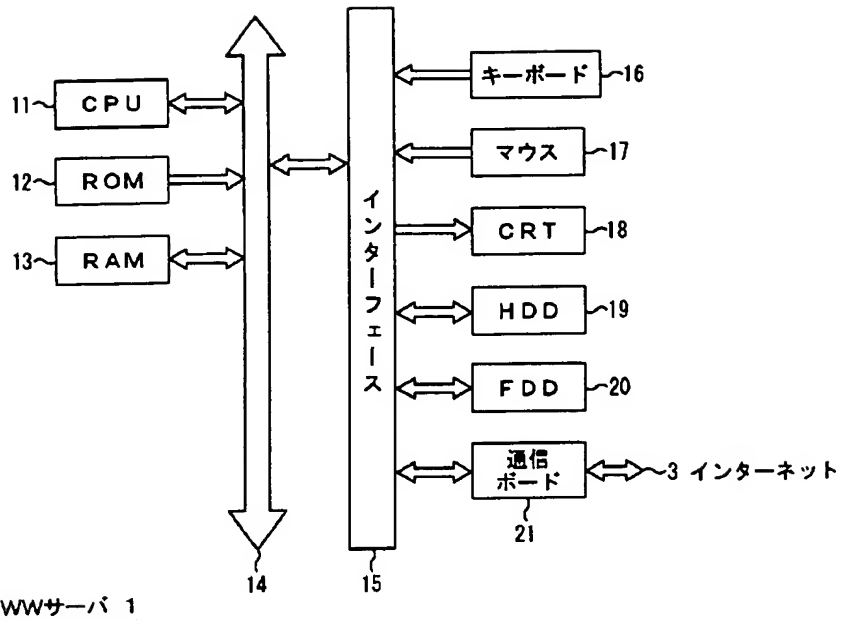
[Drawing 3]



[Drawing 9]

```
<HTML>
<HEAD>
<TITLE>Chat</TITLE>
</HEAD>
<FRAMESET ROWS="30%,*">
<FRAME SRC="input.html" TARGET="_self" NAME="submit">
<FRAME SRC="message.html" NAME="view">
</FRAMESET>
</HTML>
```

[Drawing 2]



WWWサーバ 1

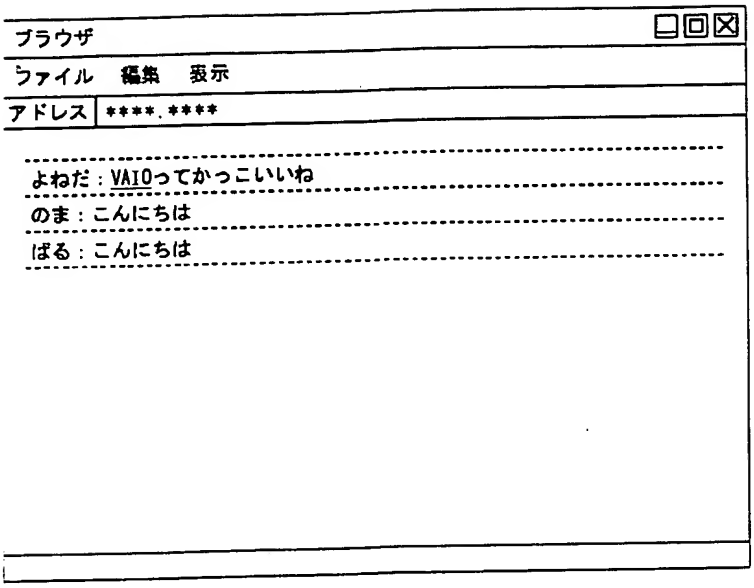
[Drawing 4]

```
<HTML>
<HEAD>
<TITLE>SimpleChat</TITLE>
</HEAD>
<BODY  BGCOLOR="#FFFFFF">
<form method="get" action="Chat.cgi" target="view">
<input type="text" name="input" size="60">
<input type="submit" value="発言">
<input type="reset" value="消す"><BR>
<input type="hidden" name="view" value="view">
<input type="hidden" name="handle" value="よねだ">
</form>
<form method="get" action="/servlets/SimpleChat" target="_top">
<input type="submit" value="帰る">
<input type="hidden" name="bye" value="true">
<input type="hidden" name="handle" value="よねだ">
</form>

</BODY>
</HTML>
```

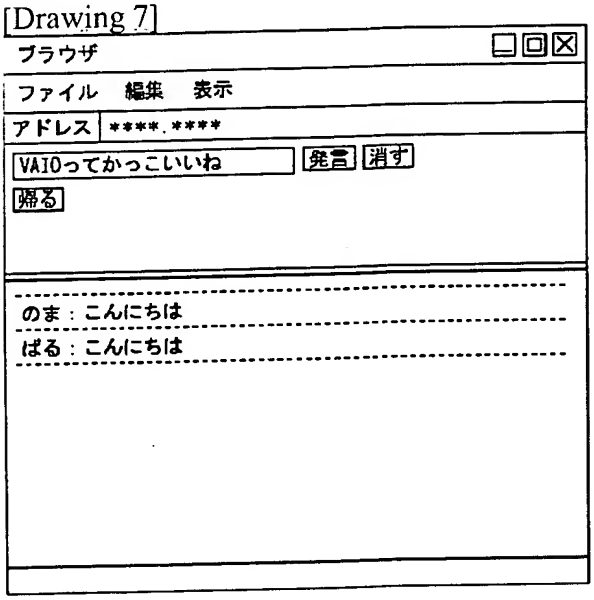
```
<HTML>
<HEAD>
<TITLE>SimpleChat</TITLE>
</HEAD>
<BODY  BGCOLOR="#FFFFFF">
<HR>

よねだ: <A HREF="http://vaio.××.co.jp">VAIO</A>ってかっこいいね<BR><HR>
のま : こんにちは<BR><HR>
ぱる : こんにちは<BR><HR>
</BODY>
</HTML>
```

[Drawing 6]

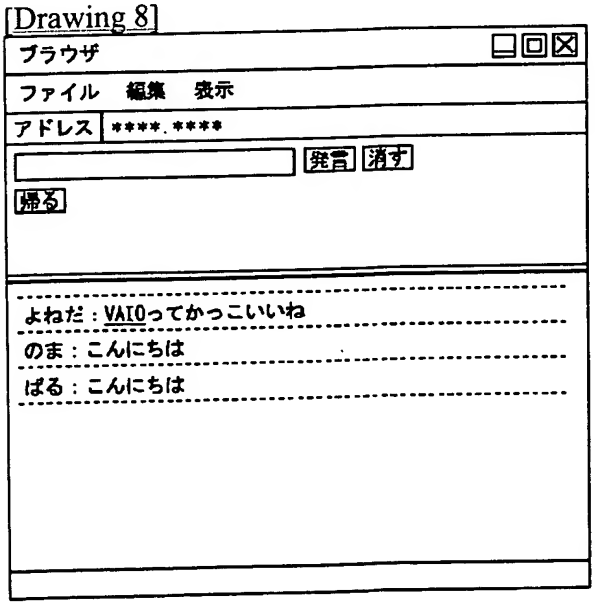
[Drawing 5]



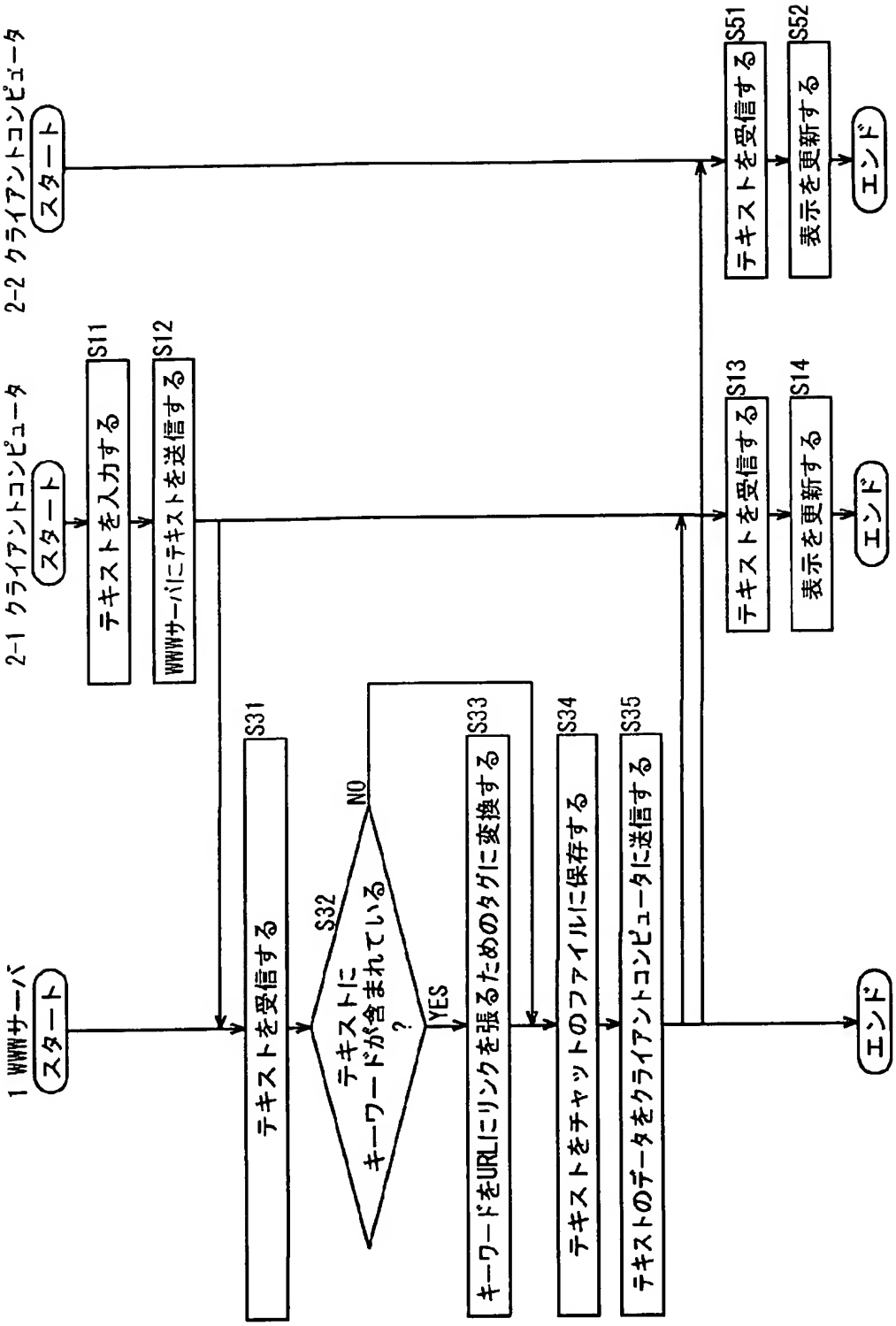
[Drawing 7]



[Drawing 8]

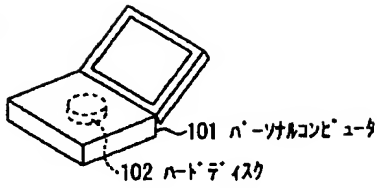


[Drawing 10]

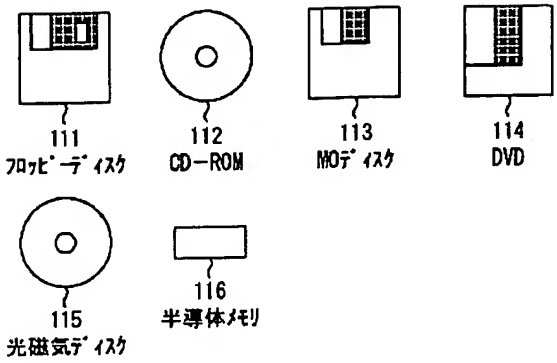

1 WWWサーバ
スタート
2-1 クライアントコンピュータ
スタート
テキストを入力する
S11
WWWサーバにテキストを送信する
S12
2-2 クライアントコンピュータ
スタート
テキストを受信する
S31
テキストに
キーワードが含まれている
?
S32
NO
YES
キーワードをURLにリンクを張るためのタグに変換する
S33
テキストをチャットのファイルに保存する
S34
テキストのデータをクライアントコンピュータに送信する
S35
テキストを受信する
S13
表示を更新する
S14
エンド
テキストを受信する
S51
表示を更新する
S52
エンド
エンド

[Drawing 11]

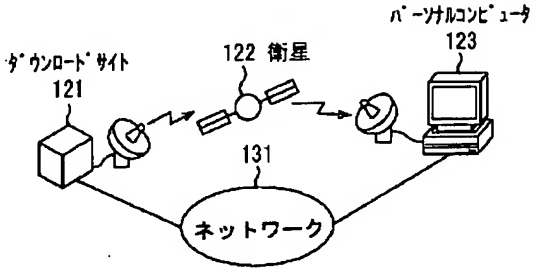
(A)



(B)



(C)



[Translation done.]